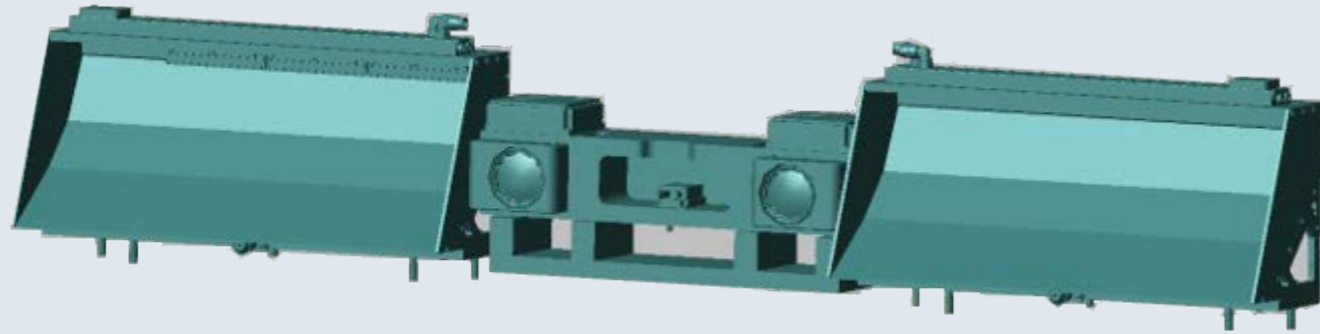


# ROAD Inspection System

High precision in fast 2D image capturing and 3D height data



Road Inspection Camera 3DPIXA pro dual RI	CP000520-E02-615-4400		
Camera	Stereo line scan camera with lenses (factory calibrated)	Camera Link configuration	12
Sensor	CCD line sensor	Power supply camera & illumination	75
Pixel size	10 μm x 10 μm (10 μm pitch)	Software output	6250
Line frequency (kHz)	29.7	Supported software libraries	4.35
Height resolution (μm)**	0.1	Road Inspection Illumination	2.55
Height range (mm)***	0.2 - 1.83	Reflector	210.8
Optical resolution (μm/pixel)	1	LED color	221
Field of view (mm)	4.4	Cooling	Base/Medium/Full
Measurement points	1	External LED Control Unit	18.4
Max. speed (km/h) with spatial transport resolution 1.0 mm	100 km/h		228 x 100 x 114
Working distance (mm)			
(μm/pixel)			10
Field of view (mm)			150
Measurement points			15000
Height resolution (μm)*			1.02
Height range (mm)**			1.83
			219.23

Chromasens Road Inspection System based on 3DPIXA stereo line scan camera and highly efficient illumination technology is a unique combination of line scan technology with fast stereo algorithms running on GPU. The System enables new 2D and 3D road inspection and measuring which requiring high-resolution and high-speed.

## Unique features of Chromasens Road Inspection Technology

- ▶ High speed road inspection up to 100 km/h (62 mph)
- ▶ Large field of view 4.4 m @ high resolution
- ▶ High quality 2D and 3D - Acquire 2D images and 3D data
- ▶ Height resolution up to 0.2 mm
- ▶ Easy to use application programming interface (API)
- ▶ Patented highly efficient illumination technology a greatly wider road than the overall compact width of the illumination itself

## Sample application images

\* Height range and height resolution depend on object surface \*\* For well-structured surfaces the height range can exceed the specified values \*\*\* on request

